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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,504	01/31/2006	Karine Villegas	1032326-000330	7562
21839 Blichanan	7590 01/29/2007 N, INGERSOLL & ROON	EXAMINER		
POST OFFICE BOX 1404			ARANI, TAGHI T	
ALEXANDRIA, VA 22313-1404			ART UNIT	PAPER NUMBER
			2131	
		·		·
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 M	IONTHS	01/29/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Applic	ation No.	Applicant(s)				
		10/560	10/566,504 VILLEGAS ET AL.		L.			
Office Action Summary			ner	Art Unit				
		Taghi ¹	T. Arani	2131	•			
Period fo	The MAILING DATE of this communic or Reply	ation appears on	the cover sheet	with the correspondence a	ddress			
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE MA nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commur operiod for reply is specified above, the maximum stature to reply within the set or extended period for reply witreply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ILING DATE OF 37 CFR 1.136(a). In no nication. story period will apply ar ill, by statute, cause the	THIS COMMUN o event, however, may nd will expire SIX (6) Mi application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) filed	on 31 January 2	2006.					
2a)□		o)⊠ This action i						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	on of Claims							
4)⊠	4)⊠ Claim(s) <u>1-25</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)⊠	☑ Claim(s) 1-25 is/are rejected.							
7)	Claim(s) <u>13-14,24 and 25</u> is/are object	ted to.						
8)□	Claim(s) are subject to restriction	on and/or electio	n requirement.					
Applicati	on Papers							
9)[The specification is objected to by the	Examiner.						
10)	The drawing(s) filed on is/are: a	a) accepted or	b) objected to	b by the Examiner.				
	Applicant may not request that any objection	on to the drawing(s) be held in abey	ance. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the			·				
11)	The oath or declaration is objected to b	by the Examiner.	Note the attach	ed Office Action or form P	TO-152.			
Priority u	inder 35 U.S.C. § 119							
	Acknowledgment is made of a claim fo ☑ All b)☐ Some * c)☐ None of:	r foreign priority	under 35 U.S.C.	§ 119(a)-(d) or (f).	٠			
	 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
* 0	application from the Internationa	•	• • • •					
. 3	ee the attached detailed Office action	for a list of the ce	ertified copies no	t received.				
			·					
Attachmen	:(s)							
	e of References Cited (PTO-892)			Summary (PTO-413)				
	e of Draftsperson's Patent Drawing Review (PTC nation Disclosure Statement(s) (PTO/SB/08)	D-948)		o(s)/Mail Date Informal Patent Application				
Paper No(s)/Mail Date <u>1,31,2006</u> . 6) Other:								

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DETAILED ACTION

1. Claims 1-25 have been examined and are pending.

Claim Objections

2. Claims 13-14 and 24-25 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title,

3. Claims 1-25 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

As per the MPEP, specifically section 2106(2)(a), it is imperative that a claimed invention as a whole accomplishes a practical application and that it produces a "useful, concrete and tangible result." State Street, 149 F.3d at 1373, 47 USPQ2d at 1601-02.

The purpose of this requirement is to limit patent protection to inventions that possess a

certain level of "real world" value, as opposed to subject matter that represents nothing more than an idea or concept, or is simply a starting point for future investigation or research (Brenner v. Manson, 383 U.S. 519,528-36, 148 USPQ 689, 693-96); In re Ziegler, 992, F.2d 1197, 1200-03, 26 USPQ2d 1600, 1603-06 (Fed. Cir. 1993)).

Apart from the utility requirement of 35 U.S.C. 101, usefulness under the patent eligibility standard requires significant functionality to be present to satisfy the useful

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result aspect of the practical application requirement. See Arrhythmia, 958 F.2d at 1057, 22 USPQ2d at 1036.

Claims 1 and 15 are directed to a method of "securely implementing a publickey cryptography algorithm". said method consisting in determining a set E comprising a predetermined number of prime numbers e that can correspond to the value of the public exponent e. at step c) the method calls for testing whether the result of a predetermined computation is equal to a value θ /ei: if so, then attributing the θ to θ otherwise observing that the computations of the cryptography algorithm using the value e cannot be performed. The examiner respectfully asserts that mere testing/attributing the value of e to e or otherwise, does not produce a useful, concrete and tangible result" (as per Applicant's own description (specification, page 11, lines 12-15) "the value of public exponent e" is determined form a set of predetermined probable values", emphasis added). Therefore, the claimed subject matter does not fall within the statutory classes listed in 35 USC 101. The claimed steps do not result in a concrete and tangible result and being directed to an abstract idea (i.e., producing non tangible/concrete result). Tangible requirement does require that the claim must recite more than a 101 judicial exception, in that the process must set forth a practical application of that 101 judicial exception to produce a real-world result, Benson, 409 U.S. at 71-72, 175 USPQ at 676-77).

Dependents claims 2-12, 16-23 are also rejected by virtue of their dependencies and the deficiencies they inherit from their base claims 1 and 15. Claims 13-14 and 24-25

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are apparatus claims corresponding to the method claims 1-12 and 15-23, thus rejected for the same reasons.

Conclusion

4. Prior arts made of record, not relied upon:

Please see attached PTO -892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Taghi T. Arani whose telephone number is (571) 272-3787. The examiner can normally be reached on 8:00-5:30 Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Taghi T. Arani, Ph.D Primary Examiner Art Unit 2131 1/11/2007